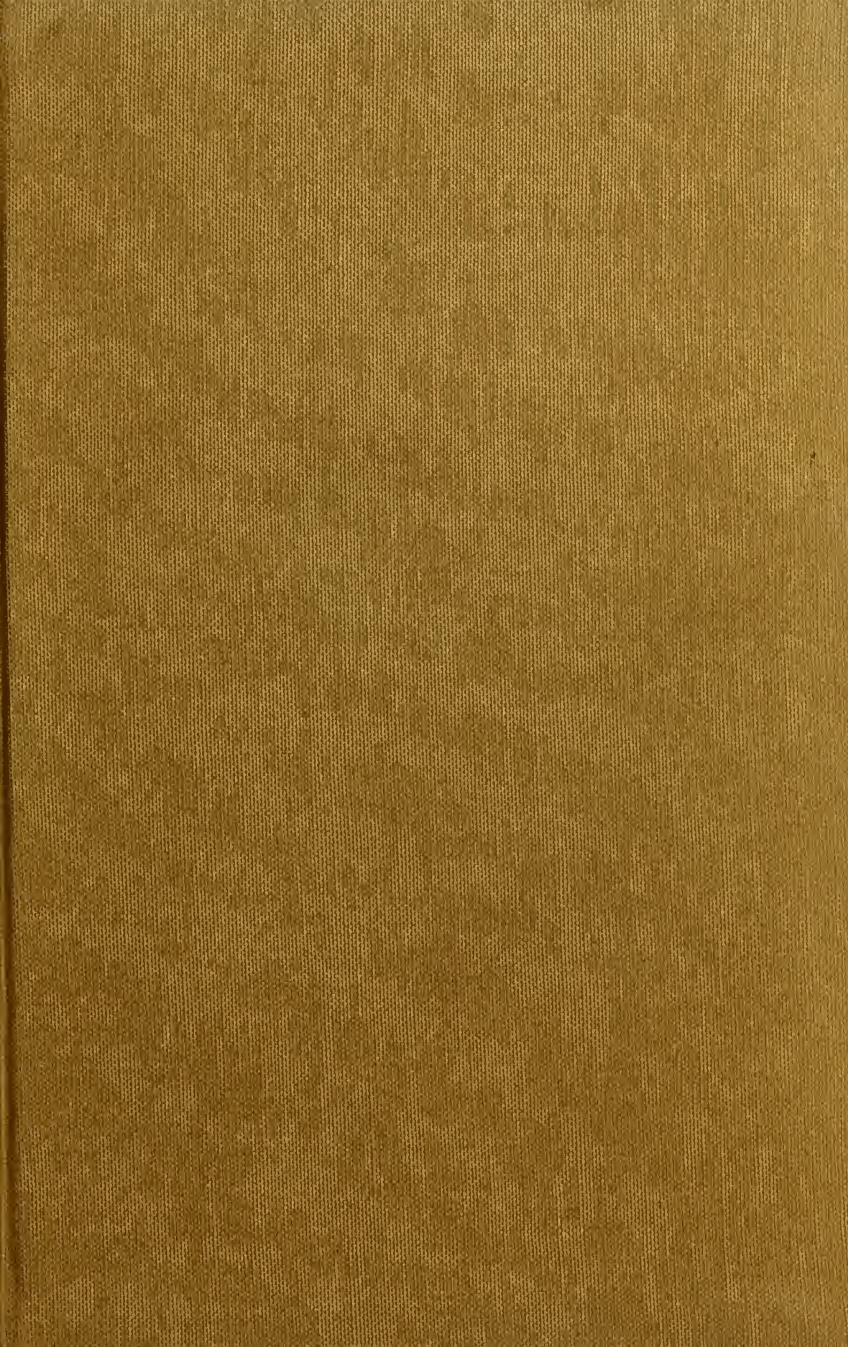




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EXPERIMENT STATION LIBRARY

INSPECTION OF COMMERCIAL FERTILIZERS

MADE FOR THE STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial fertilizers reported in this bulletin was made under the direction of the Honorable Andrew L. Felker, Commissioner of Agriculture. The state inspector, Mr. Eugene D. Sanborn, collected samples of 127 brands of fertilizer materials which were offered for sale by dealers or had been delivered to consumers during the year ending June, 1931. The general character of the fertilizer materials collected is shown by the following classification:

Complete fertilizer	103
Nitrogen and superphosphate	1
Superphosphate (acid phosphate)	6
Nitrate of Soda	1
Calcium nitrate	1
Sulphate of ammonia	2
Ground bone	5
Tankage	2
Natural manures	6

127

THE FERTILIZER LAW

The New Hampshire fertilizer law applies to all fertilizer materials offered for sale, whether mixed materials in the form of complete fertilizers or unmixed materials as superphosphate (acid phosphate), nitrate of soda, ground bone, tankage, etc. Under the provisions of the law every manu-

facturer or dealer who shall sell or offer for sale any fertilizer material shall furnish with each lot or package a clearly printed statement certifying the brand name under which it is sold, the name and address of the manufacturer, the number of net pounds the package contains and a chemical analysis stating the minimum percentages of nitrogen, of total phosphoric acid, of available phosphoric acid and of water soluble potash. No person shall sell or offer for sale any pulverized leather, hair or wool waste, peat, garbage tankage, or any inert material whatsoever, without an explicit printed statement of the fact conspicuously fixed to every package of such material. The state official in charge of the administration of the fertilizer law is the Commissioner of Agriculture.

During the past year five conferences have been held by officials charged with the enforcement of the fertilizer laws, agronomists and manufacturers. They have agreed to cooperate in the territory represented by the six New England States, New York, New Jersey, Pennsylvania, Delaware, Maryland, and West Virginia in enforcing the following changes:

1. When fertilizers are registered with the state fertilizer control official the guaranty shall be stated in terms of **nitrogen** and not in terms of **ammonia**.
2. Grades or analyses of mixed fertilizers shall be expressed in whole units and **not** in fractions or decimals.
3. Trade or brand names shall include the numerals giving the minimum percentage of each plant food in the order—nitrogen, available phosphoric acid, and potash.

In Table I are given the grades of complete fertilizers collected, the number of brands found in each grade, the average analysis of each grade and the average retail price per ton.

TABLE I

Formula	Number of brands	Average per cent nitrogen	Average per cent total phosphoric acid	Average per cent available phosphoric acid	Average per cent water soluble potash	Average retail price per ton
0.82—9—4	1	1.08	9.65	8.88	4.06	\$32.00
0.82—10—3	1	1.09	12.50	10.96	3.22	38.00
1.64—8—2	3	1.93	9.46	8.60	2.25	42.33
1.64—8—10	1	1.77	9.18	8.55	9.72	.....
1.64—9—3	2	1.75	10.34	9.62	3.08	44.00
1.64—10—2	5	1.93	11.28	10.28	2.20	36.20
1.64—10—4	1	2.04	11.76	10.02	4.16	43.00
1.64—12—4	3	2.00	13.40	12.27	4.16	37.67
2.47—8—4	9	2.69	9.31	8.55	4.14	40.44
2.46—8—10	1	2.80	10.39	8.25	10.26	52.00
2.46—10—4	1	2.52	11.84	11.01	4.00	50.00
2.46—10—6	2	2.66	11.59	10.80	6.06	38.50
2.46—12—4	1	2.60	13.32	12.29	4.08	40.00
3.29—6—10	12	3.34	7.19	6.59	9.74	43.51
3.29—8—4	10	3.43	9.27	8.55	4.11	41.10
3.29—8—10	1	3.45	9.29	8.58	10.01	44.00
3.29—10—4	1	3.56	11.98	10.42	4.06	48.00
4—8—8	1	4.00	9.11	8.00	7.70	.....
4—10—6	1	4.44	10.55	9.31	6.41	45.00
4—12—4	1	4.00	13.79	11.67	4.00	120.00
4.11—7—10	2	4.19	8.56	7.93	9.74	60.00
4.11—8—7	16	6.01	9.40	8.53	6.93	48.44
4.11—10—5	1	4.29	10.82	10.00	5.00	45.00
4.11—13—4	1	4.00	15.54	13.11	4.14	100.00
4.93—6—4	1	4.94	7.71	7.09	4.04	50.00
4.93—8—7	1	5.02	9.52	8.79	7.02	47.00
4.93—8—10	1	5.23	11.71	8.84	10.68	.....
5—10—4	1	5.18	12.11	10.92	4.00	120.00
5.76—6—5	4	5.70	7.29	6.78	4.98	51.75
5.76—8—5	1	5.64	9.18	8.87	5.11	43.00
5.76—8—6	1	5.81	9.56	8.91	6.45	67.00
5.76—11—10	1	5.86	12.03	11.18	10.00	.....
6.58—6—6	2	6.81	7.20	6.35	6.25	47.50
6.58—8—4	1	6.67	9.35	8.36	4.21	85.00
6.58—13—11	2	6.64	14.08	13.58	11.42	56.00
8—16—16	1	7.70	17.06	16.38	16.98	.....
8.22—3—8	1	8.71	9.36	5.80	8.73	70.00
8.22—3.50—8	1	8.80	4.45	4.31	8.39	78.00
8.22—6—6	1	8.03	7.23	6.87	6.00	51.00
8.22—16—14	3	7.65	16.80	16.07	13.41	80.00
9—18—18	1	8.75	20.40	18.78	19.61	.....
12—24—12	1	12.94	27.55	26.90	9.64	85.00

CONFORMITY TO GUARANTEE

Forty-seven of the 127 brands analyzed were found to contain less than the guarantee of one or more of the three constituents. The total number of guarantees on the 127 brands was 462, the total number of deficiencies 54, the

per cent of the guarantees deficient 11.7. In the last year's inspection this figure was 13.0 per cent. The previous year it was 12.3 per cent. Many of the deficiencies were comparatively negligible, the small deficiency in one constituent being offset in value by overrun in other constituents.

A detailed summary of the deficiencies in the 47 brands which failed to meet the guarantees follows:

	Number of Brands	Total Deficiencies
Nitrogen, total phosphoric acid, available phosphoric acid and potash	1	4
Nitrogen, total phosphoric acid and potash	0	0
Nitrogen, available phosphoric acid and potash	0	0
Nitrogen, total phosphoric acid and available phosphoric acid	0	0
Nitrogen and total phosphoric acid.....	0	0
Nitrogen and available phosphoric acid....	0	0
Nitrogen and potash	4	8
Nitrogen	15	15
Total phosphoric acid, available phosphoric acid and potash	0	0
Total phosphoric acid and potash	0	0
Available phosphoric acid and potash.....	0	0
Potash	20	20
Total phosphoric acid and available phosphoric acid	0	0
Total phosphoric acid	1	1
Available phosphoric acid	6	6
	47	54

NITROGEN DEFICIENCIES

One hundred twenty-one brands were guaranteed to contain nitrogen in amounts varying from 0.82 per cent

to 20.56 per cent. Twenty brands failed to meet the guarantee. Fourteen of these brands were deficient one-fourth per cent or less, the equivalent of 5 lbs. or less of nitrogen per ton. The amounts of the other deficiencies expressed as pounds per ton are as follows: 5.8 lbs., 5.8 lbs., 6.0 lbs., 6.0 lbs., 7.4 lbs., 24.2 lbs. The greatest deficiency, 24.2 lbs., is equivalent to approximately \$2.50 per ton, assuming the nitrogen present in the inorganic form.

PHOSPHORIC ACID DEFICIENCIES

One hundred five brands were guaranteed to contain phosphoric acid. Eight brands failed to meet the guarantees. One was deficient in total phosphoric acid, six in available phosphoric acid and one in both total and available phosphoric acid. Only one of these deficiencies would amount to as much as \$1.00 per ton.

POTASH DEFICIENCIES

One hundred nine samples were guaranteed to contain potash. Twenty-five failed to meet the guarantee. Only two of these deficiencies, however, would amount to as much as \$1.00 per ton.

In the tabulation of the analyses in the following pages deficiencies of two-tenths of one per cent or more are shown in italics. The names of the manufacturers are arranged alphabetically, and under the manufacturer the different brands are arranged alphabetically or numerically by formula.

	NITROGEN		PHOSPHORIC ACID				POTASH	
	Guaranteed	Found	Total		Available		Guaranteed	Found
			Guaranteed	Found	Guaranteed	Found		
AMERICAN AGRICULTURAL CHEMICAL Co. New York City								
AAA Superphosphate 16%	6.58	6.77	16.50	18.18	16.00	16.64	.....	.....
AAA Top Dresser	0.82	1.08	9.50	7.19	6.00	6.70	6.00	6.00
Acme Fertilizer	4.94	5.02	8.50	9.65	9.00	8.88	4.00	4.06
Agrico for Aroostook	2.47	2.71	10.50	9.52	8.00	8.79	7.00	7.02
Agrico for Corn	8.23	8.03	6.50	11.75	10.00	10.92	6.00	6.12
Agrico for Fruit	3.29	3.45	8.50	7.23	6.00	6.87	6.00	6.00
Agrico for New England	4.11	4.29	10.50	9.29	8.00	8.58	10.00	10.01
Agrico for Truck	4.11	4.00	10.50	10.82	10.00	10.00	5.00	5.00
Aroostook Potato Manure	2.47	3.29	8.50	9.76	8.00	9.10	7.00	6.86
Bowker's All Round Fertilizer	3.29	3.63	8.50	9.37	8.00	8.70	4.00	4.13
Bowker's Market Garden Fertilizer	1.65	1.68	8.50	9.08	8.00	8.39	4.00	4.00
Bowker's Potato and Vegetable Phosphate	1.65	1.88	8.50	10.07	9.00	9.28	3.00	3.04
Bowker's Square Brand Corn and Grain Fertilizer	4.11	4.11	8.50	9.70	8.00	9.01	2.00	2.08
Bowker's Stockbridge Early Crop Manure	3.29	3.31	6.50	9.68	8.00	9.28	7.00	6.52
Bowker's Stockbridge Potato and Vegetable Manure	3.29	3.29	6.50	7.02	6.00	6.36	10.00	9.52
Bradley's Complete Manure with 10% Potash	1.65	1.81	8.50	7.16	6.00	6.54	10.00	9.89
Bradley's Corn Phosphate .....	.....	.....	8.50	9.66	8.00	8.97	2.00	2.31

Bradley's Potato Fertilizer	1.65	1.82	9.50	10.61	9.00	9.96	3.00	3.11
Bradley's XL Super Phosphate of Lime	2.47	2.52	10.50	11.84	10.00	11.01	4.00	4.00
E. Frank Coe's Standard Potato Fertilizer	3.29	3.34	6.50	6.99	6.00	6.39	10.00	9.82
Corn Favorite	2.47	2.60	10.50	11.42	10.00	10.67	6.00	6.00
Double Strength Fertilizer	8.25	8.00	16.50	16.74	16.00	16.00	14.00	14.11
Farmers' Friend Fertilizer	1.65	1.83	12.50	13.27	12.00	12.13	4.00	4.14
Grass and Lawn Top Dressing	4.94	4.94	6.50	7.71	6.00	7.09	4.00	4.04
Prolific 10% Potash Fertilizer	1.65	1.77	8.50	9.18	8.00	8.55	10.00	9.72
Pulverized Sheep and Goat Manure	1.23	1.23	0.50	1.24	.....	.....	2.00	2.71
Special Ground Bone	2.47	2.79	22.88	28.12	.....	.....	.....	.....
AMERICAN CYANAMID Co. New York City								
Ammo-Phos-Ko No. 1	12.00	12.94	.....	27.55	24.00	26.90	12.00	9.64
Ammo-Phos-Ko No. 2-A	9.00	8.75	.....	20.40	18.00	18.78	18.00	19.61
APOTHECARIES HALL Co. Waterbury, Conn.								
Bone Meal	2.46	2.77	22.00	24.10	.....	.....	.....	.....
Liberty Corn and All Crops 2-8-2	1.64	2.10	8.00	9.02	8.00	7.82	2.00	2.37
Liberty 2-12-4 Corn Fruit and All Crops	1.64	2.34	12.00	13.80	12.00	12.69	4.00	4.33
Liberty 4-6-10 Fertilizer	3.29	3.41	6.00	7.73	6.00	7.23	10.00	10.13
Liberty High Grade Market Garden 5-8-7	4.11	4.25	8.00	9.55	8.00	8.45	7.00	7.30
Liberty Potato and Market Garden Special 4-8-4	3.29	3.47	8.00	9.40	8.00	8.73	4.00	4.19
Liberty Special Fertilizer 7-8-6 for Fruit	5.75	5.81	8.00	9.56	8.00	8.91	6.00	6.45
Liberty Special Fertilizer for Lawns	3.29	4.54	11.00	11.45	4.00	5.38	.....	.....
Liberty Top Dresser 10-3.5-8 for Grass and Grain	8.22	8.80	3.50	4.45	3.50	4.31	8.00	8.39

	NITROGEN		PHOSPHORIC ACID				POTASH	
	Guaranteed	Found	Total		Available		Guaranteed	Found
			Guaranteed	Found	Guaranteed	Found		
ARMOUR FERTILIZER WORKS Carteret, N. J.								
Armour's Big Crop Fertilizer 3-8-4	2.47	2.74	8.50	9.54	8.00	4.00	4.06	
Armour's Big Crop Fertilizer 5-8-7	4.11	4.04	8.50	9.13	8.00	7.00	7.59	
Armour's Big Crop Fertilizer 7-11-10	5.76	5.86	11.50	12.03	11.00	10.00	10.00	
Armour's Big Crop Fertilizer 10-16-14	8.23	7.02	16.50	15.94	16.00	14.00	12.11	
ATMOSPHERIC NITROGEN CORPORATION Hopewell, Va.								
Arcadian Super-Fine Nitrate of Soda	16.00	16.03	.....	.....	.....	.....	.....	
JOSEPH BRECK & SONS Boston, Mass.								
Breck's Ram's Head Brand Pulverized Sheep Manure....	1.46	1.28	0.75	0.96	.....	3.00	3.16	

BURLINGTON RENDERING Co.
Burlington, Vt.

Burlington 4-6-10 Fertilizer	3.28	3.17	6.00	7.19	6.00	6.70	10.00	9.17
Burlington 4-8-4 Fertilizer	3.28	3.56	8.00	9.06	8.00	8.48	4.00	4.09
Burlington 5-8-7 Fertilizer	4.10	4.11	8.00	8.50	8.00	8.00	7.00	6.83

CONSOLIDATED RENDERING Co.
Boston, Mass.

Corenco 8-13-11	6.56	6.56	13.00	14.06	13.00	13.68	11.00	11.00
Corenco 10-16-14	8.22	7.93	16.00	17.73	16.00	16.92	14.00	14.00
Corenco Sheep Manure	1.23	1.13	0.50	1.06	.....	.....	2.00	3.24
Ground Bone	2.05	2.00	22.90	29.30	.....	.....	.....	.....
Ground Tankage 9-20	7.41	7.41	8.15	9.47	.....	.....	.....	.....
Superphosphate 16% .....	.....	.....	16.00	17.80	16.00	16.22	.....	.....

JOHN C. DOW Co.
Boston, Mass.

Dow's 3-8-4 Fertilizer	2.46	2.49	8.00	9.06	8.00	8.09	4.00	4.16
Dow's 4-6-10 Fertilizer	3.29	3.32	6.00	7.09	6.00	6.41	10.00	9.86
Dow's 5-8-7 Fertilizer	4.10	4.12	8.00	9.34	8.00	8.61	7.00	7.00
Dow's Pure Ground Bone	2.00	1.63	24.00	30.30	10.00	11.71	.....	.....

EASTERN STATES FARMERS' EXCHANGE
Springfield, Mass.

Eastern States 4-8-8 Open Formula Fertilizer	4.00	4.00	8.25	9.11	8.00	8.00	8.00	7.70
Eastern States 4-10-6 Open Formula Fertilizer	4.00	4.44	10.50	10.55	10.00	9.31	6.00	6.41
Eastern States 8-16-16 Open Formula Fertilizer	8.00	7.70	16.50	17.06	16.00	16.38	16.00	16.98
Eastern States Superphosphate 16% .....	.....	.....	16.50	17.24	16.00	16.55	.....	.....

	NITROGEN		PHOSPHORIC ACID				POTASH	
	Guaranteed	Found	Available		Total		Guaranteed	Found
			Guaranteed	Found	Guaranteed	Found		
Essex Fertilizer Co. Boston, Mass.								
Essex A1 Super 2—10—2	1.64	1.86	10.00	11.32	10.00	10.29	2.00	2.15
Essex Complete Manure 5—8—7	4.10	4.14	8.00	9.64	8.00	9.24	7.00	6.64
Essex Corn Fertilizer 3—12—4	2.46	2.60	12.00	13.32	12.00	12.29	4.00	4.08
Essex Fish Fertilizer 3—8—4 for All Crops	2.46	2.60	8.00	8.93	8.00	8.12	4.00	4.20
Essex High Grade Special 5—7—10	4.10	4.27	7.00	9.13	7.00	8.55	10.00	9.41
Essex Market Garden 4—8—4	3.28	3.54	8.00	9.72	8.00	8.88	4.00	4.34
Essex Peerless Potato Manure 4—6—10	3.28	3.45	6.00	6.61	6.00	6.00	10.00	9.85
Essex Top Dressing 7—6—5	5.76	5.46	6.00	6.99	6.00	6.67	5.00	4.92
THE GRASSELLI CHEMICAL Co. New York City								
Grasselli Plant Food	4.12	4.00	15.00	15.54	13.00	13.11	4.00	4.14
HUDSON VALLEY FUEL CORPORATION Troy, N. Y.								
“Nusoil” Sulphate of Ammonia	20.50	20.68	.....	.....	.....	.....	.....	.....

INTERNATIONAL AGRICULTURAL CORP. Woburn, Mass.										
Caribee 5-8-7 Lawn and Garden	4.12	4.12	8.50	9.48	8.00	8.37	7.00	6.73		
Crop Grower 5-8-7	4.12	4.12	8.50	8.91	8.00	8.18	7.00	7.08		
General Favorite 3-8-4	2.50	2.28	8.50	9.06	8.00	8.39	4.00	4.35		
Ideal 4-8-4	3.30	3.39	8.50	8.99	8.00	8.16	4.00	4.19		
New England Special 2-12-4	1.65	1.83	12.50	13.12	12.00	12.00	4.00	4.00		
Special 4-6-10	3.30	3.30	6.50	7.59	6.00	7.05	10.00	9.66		
Sulphate of Ammonia	20.56	21.01	16.50	17.20	16.00	16.54	.....	.....		
16% Superphosphate .....	.....	.....	.....	.....	.....	.....	.....	.....		
LOWELL FERTILIZER CO. Boston, Mass.										
Lowell Animal Brand 3-8-4	2.46	2.88	8.00	10.16	8.00	9.44	4.00	4.12		
Lowell Bone Fertilizer 2-10-2	1.64	2.05	10.00	11.79	10.00	10.70	2.00	2.41		
Lowell Corn and Vegetable 4-8-4	3.28	3.28	8.00	8.92	8.00	8.40	4.00	4.00		
Lowell Market Garden Manure 5-8-7	4.10	4.10	8.00	9.62	8.00	8.61	7.00	6.85		
Lowell Potato Grower 4-6-10	3.28	3.28	6.00	6.92	6.00	6.26	10.00	9.89		
Lowell Special Potato Fertilizer 5-7-10	4.10	4.10	7.00	7.92	7.00	7.30	10.00	10.06		
Lowell Top Dressing 7-6-5	5.76	5.76	6.00	7.37	6.00	6.85	5.00	5.00		
MAINE FARMERS' EXCHANGE Portland, Me.										
Produce More 4-6-10	3.30	3.33	6.50	7.39	6.00	6.71	10.00	9.76		
Produce More 4-8-4	3.28	3.28	8.50	9.15	8.00	8.17	4.00	4.00		
Produce More 5-8-7	4.11	4.02	8.50	8.75	8.00	8.11	7.00	6.73		
Produce More 16% Superphosphate .....	.....	.....	16.50	17.67	16.00	16.80	.....	.....		

	NITROGEN		PHOSPHORIC ACID				POTASH	
	Guaranteed	Found	Total		Available		Guaranteed	Found
			Guaranteed	Found	Guaranteed	Found		
MANCHESTER RENDERING Co. Manchester, N. H.								
Manchester 3—8—4 Fertilizer	2.46	2.81	8.00	9.47	8.00	8.77	4.00	4.09
Manchester 5—8—7 Fertilizer	4.10	4.33	8.00	9.89	8.00	9.11	7.00	6.59
Tankage	5.75	7.63	.....	8.41	8.00	3.87	.....	.....
MERRIMACK FARMERS' EXCHANGE Concord, N. H.								
Merrimack Complete Fruit Fertilizer 7—8—5	5.76	5.64	8.00	9.18	8.00	8.87	5.00	5.11
Merrimack 2—10—2	1.64	1.81	10.00	11.23	10.00	10.28	2.00	2.16
Merrimack 3—8—4 for Corn, Potatoes and Vegetables	2.46	2.54	8.00	8.92	8.00	8.12	4.00	4.08
Merrimack 4—6—10	3.29	3.34	6.00	7.35	6.00	6.76	10.00	9.66
Merrimack 4—8—4 for Corn, Potatoes and General Crops	3.28	3.30	8.00	9.21	8.00	8.48	4.00	4.00
Merrimack 5—8—7 for Potatoes, Grass and Market Garden	4.10	3.87	8.00	9.14	8.00	8.18	7.00	7.03
Merrimack Top Dressing 7—6—5	5.76	5.93	6.00	7.67	6.00	7.07	5.00	5.00

NATURAL GUANO Co. Aurora, Ill.		2.00	2.27	-----	1.54	1.00	1.34	2.00	2.89
Pulverized Sheep Manure Sheep's Head Brand									
NEW ENGLAND FERTILIZER Co. Boston, Mass.									
New England Complete Manure 4-6-10		3.28	3.54	6.00	7.27	6.00	6.70	10.00	9.66
New England Corn Phosphate 2-10-2		1.64	1.97	10.00	11.00	10.00	9.92	2.00	2.23
New England Potato and Vegetable Manure 4-8-4		3.28	3.35	8.00	8.95	8.00	8.37	4.00	4.17
New England Special Putting Green Fertilizer 8-8-4		6.56	6.67	8.00	9.35	8.00	8.36	4.00	4.21
New England Super 3-8-4		2.46	2.56	8.00	9.27	8.00	8.37	4.00	4.03
New England Top Dressing 7-6-5		5.74	5.66	6.00	7.12	6.00	6.54	5.00	5.00
NEW ENGLAND RENDERING Co. Brighton, Mass.									
Ground Bone		2.08	2.12	25.17	27.37	-----	-----	-----	-----
OLD DEERFIELD FERTILIZER Co., INC. South Deerfield, Mass.									
Old Deerfield 5-8-7		4.11	4.42	8.00	10.14	8.00	8.03	7.00	7.08
Old Deerfield 8-6-6 Grass Top Dressing		6.58	6.84	6.00	7.20	6.00	6.00	6.00	6.50
PORTLAND RENDERING Co. Portland, Me.									
Portland Organic Fertilizer 2-10-2		1.64	1.96	10.00	11.08	10.00	10.23	2.00	2.06
Portland Organic Fertilizer 5-8-7		4.10	4.24	8.00	8.97	8.00	8.64	7.00	7.00
Portland Organic Fertilizer 8-13-11		6.56	6.72	13.00	14.09	13.00	13.48	11.00	11.84

	NITROGEN		PHOSPHORIC ACID				POTASH	
	Guaranteed	Found	Total		Available		Guaranteed	Found
			Guaranteed	Found	Guaranteed	Found		
THE PULVERIZED MANURE Co. Chicago, Ill.								
Wizard Brand Pulverized Sheep Manure	2.00	2.33	.....	2.14	1.00	2.00	2.46	
THE ROGERS & HUBBARD Co. Portland, Conn.								
Corn and Grain Fertilizer	0.82	1.09	10.50	12.50	10.00	3.00	3.22	
High Potash Fertilizer	2.46	2.80	8.50	10.39	8.00	10.00	10.26	
Hubbard's All Soils—All Crops Fertilizer	3.30	3.56	10.50	11.98	10.00	4.00	4.06	
Oats and Top Dressing	8.22	8.71	8.00	9.36	3.00	8.00	8.73	
Portland Brands 4—8—4 Fertilizer	3.30	3.50	8.25	10.23	8.00	4.00	4.13	
Portland Brands 5—8—7 Fertilizer	4.11	4.22	8.25	9.93	8.00	7.00	7.00	
Potato Fertilizer	1.64	2.04	10.50	11.76	10.00	4.00	4.16	
Soluble Tobacco Manure	4.93	5.23	10.00	11.71	8.00	10.00	10.68	
Superphosphate .....	.....	.....	16.50	18.21	16.00	.....	.....	

Vigoro	Swift & Co. Baltimore, Md.	4.00	4.00	12.30	13.79	12.00	11.67	4.00	4.00
Calcium Nitrate (Nitrate of Lime)	SYNTHETIC NITROGEN PRODUCTS CORP. New York, N. Y.	15.00	15.37	-----	-----	-----	-----	-----	-----
Loma	TENNESSEE COPPER & CHEMICAL CORP. New York City	5.00	5.18	10.65	12.11	10.00	10.92	4.00	4.00
Driconure	WALKER GORDON FARMS Juliestown, N. J.	1.50	1.99	1.00	0.93	-----	-----	1.25	1.97



